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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/597,874	08/10/2006	Thomas Blaffert	2004P00429WOUS	7335
	7590 11/02/201 ELLECTUAL PROPER	EXAMINER		
P. O. Box 3001			PATEL, NIRAV G	
BRIARCLIFF MANOR, NY 10510			ART UNIT	PAPER NUMBER
			2624	
			NOTIFICATION DATE	DELIVERY MODE
			11/02/2011	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Advisory Action Before the Filing of an Appeal Brief

٦	Application No.	Applicant(s)	
	10/597,874	BLAFFERT ET AL.	
	Examiner	Art Unit	
	Nirav G. Patel	2624	

	Nirav G. Patel	2624				
The MAILING DATE of this communication appe	ars on the cover sheet with the	correspondence address				
THE REPLY FILED 14 October 2011 FAILS TO PLACE THIS A	PPLICATION IN CONDITION FO	R ALLOWANCE.				
 M The reply was filed after a final rejection, but prior to or on application, applicant must timely file one of the following application in condition for allowance; (2) a Notice of Appe for Continued Examination (RCE) in compliance with 37 C periods: 	replies: (1) an amendment, affidav eal (with appeal fee) in compliance	it, or other evidence, which places the with 37 CFR 41.31; or (3) a Request				
periods: a) The period for reply expires months from the mailing date of the final rejection.						
b) The period for reply expires on: (1) the mailing date of this A	The period for reply expires on; (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expires later than SIX MONTHS from the mailing date of the final rejection.					
Examiner Note: If box 1 is checked, check either box (a) or (MONTHS OF THE FINAL REJECTION. See MPEP 706.07(0.					
Extensions of time may be obtained under 37 CFR 1.136(a). The date have been filed is the date for purposes of determining the period of ext under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1.704(b)	ension and the corresponding amount hortened statutory period for reply orig than three months after the mailing da	of the fee. The appropriate extension fee inally set in the final Office action; or (2) as				
NOTICE OF APPEAL						
 The Notice of Appeal was filed on A brief in comp filing the Notice of Appeal (37 CFR 41.37(a)), or any exter a Notice of Appeal has been filed, any reply must be filed 	nsion thereof (37 CFR 41.37(e)), to	avoid dismissal of the appeal. Since				
AMENDMENTS						
 The proposed amendment(s) filed after a final rejection, to (a) They raise new issues that would require further core. (b) They raise the issue of new matter (see NOTE below) They are not deemed to place the application in better. 	nsideration and/or search (see NO w);	TE below);				
appeal; and/or (d) ☐ They present additional claims without canceling a of the control of the						
NOTE: (See 37 CFR 1.116 and 41.33(a)).						
 The amendments are not in compliance with 37 CFR 1.12 	21. See attached Notice of Non-Co	empliant Amendment (PTOL-324).				
5. Applicant's reply has overcome the following rejection(s):						
 Newly proposed or amended claim(s) would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s). 						
7. Mean For purposes of appeal, the proposed amendment(s): a) will not be entered, or b) will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended. The status of the claim(s) is (or will be) as follows: Claim(s) allowed:						
Claim(s) objected to: Claim(s) rejected: <u>1-20</u> .						
Claim(s) withdrawn from consideration:						
AFFIDAVIT OR OTHER EVIDENCE	hafara as an the data of filing a hi	ation of Annual will not be entered				
 The affidavit or other evidence filed after a final action, bu because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e). 						
 The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to o showing a good and sufficient reasons why it is necessar 	vercome <u>all</u> rejections under appe	al and/or appellant fails to provide a				
10. ☐ The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.						
REQUEST FOR RECONSIDERATION/OTHER						
11. The request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet.						
12. ☐ Note the attached Information Disclosure Statement(s), (PTO/SB/08) Paper No(s).						
13. Other: See Continuation Sheet.						
/Nirav G Patel/	/Brian P. Werner/					
Examiner, Art Unit 2624	Primary Examiner, Art L	Jnit 2624				

PTOL-303 (Rev. 08-06)

Continuation of 11. does NOT place the application in condition for allowance because:

Regarding Claim 1, the applicants assert that the Ko reference uses the sternum, vertebra, trachea and the lungs as the registered object constituents in the trend control of tumors (Ko's predetermined task). As such, during the trend control, only the lungs are considered the relevant constituents.

Examiner's Response - After reviewing the cited portion in the Ko reference by the applicants in the remarks dated 10/14/2011 (Ko Page 270, Cols. 1 & 2, particularly the section titled "Analysis of change over time"), the Examiner submits the following:

The portions of Ko relied upon to reject the limitation in question ("...register only those image areas...") relies upon the section title 'Analysis of consecutive CT sections with three-dimensional techniques." It is within this section where Ko teaches using the trachea. The Examiner relied upon the registering of the trachea as registering it as the only object registered as it is relevant to the task.

Reading the title of the section alone, one sees that the images being registered are consecutive images (one right after another).

Thus. Ko registers consecutive CT images using the trachea as the landmark.

Ko further teaches, as the applicants have included an excerpt in the response dated 10/14/2011, pages 5-6, that "...in a patient's initial CT study, the computer identified a possible matching image and Mvo surrounding images in the follow-up CT study This was performed with use of centroids of anatomic structures such as the stemum, vertebra, and trachea (Fig 3)." In other words, Ko teaches that possible matching images are found using the anatomic structures and not registration over two studies of the lung to porm trend control. This distinction is brought up to identify the next link in the Examiner's argument. The application indicates, as well as telephone interview with the applicant's representative, that the image from one study is registered from another study (second image) which has a temporal gap, or as the applicant's original specification states 'older stored images' (PG-Pub Paragraph 0033). Thus the analysis performed by the

The cited portion of Ko continues on to teach that the "...centroid of the trachea con the shifted secondary to atelectasis or an adjacent mass and may not be a consistent landmark for registration," and that the "...most media, lateral, anterior, aspector pixels of soluting were also identified and registered as were the centroids of the individual and combined lungs." These teachings are found in the section titled "Analysis of change over time."

Thus, it is the Examiner's position that while the sternum, trachea, vertebrae and lungs are used to identify possible matching images in follow-up studies, they are not used for registration in the task of trend control (how the nodules within the lung change over time). It is the Examiner's position that the registering for trend control is performed using image data related to the medial, lateral, anterior and posterior pixels of each lung and the centroids of the individual and combined lungs or in other words the lungs (and associated data) is used to recisister the two images.

The Examiner's position is deemed broad and reasonable as the Examiner has used the applicants originally filed specification to interpret the claims (obly mages are of the same patient at different time and not consecutive). In view of the explained Ko's teachings, it is believed that Ko shows registering only relevant (lung) constituents (medial, lateral, anterior and posterior pixels) which is relevant to trend control of lunn tumors.

The same line of reasoning applies to claims 9, 18 and 20 as well.

Continuation of 13. Other: Continuation of 7. The claims would be rejected as presented in the Final Office Action dated 8/18/2011 as there are no claim amendments